



WISCONSIN DNR FISHERIES INFORMATION SHEET

LAKE: MADELINE

COUNTY: ONEIDA

YEAR: 2005

The Department of Natural Resources surveyed Madeline Lake, Oneida County, from April 14 through June 8, 2005, to determine the health of its fishery. The survey was designed to take a comprehensive look at the lake's fishery. Madeline Lake is a small, shallow drainage lake with principally sand substrate and a low-density walleye population. It has a surface area of 159 acres, 3.1 miles of shoreline and a maximum depth of 17 feet.

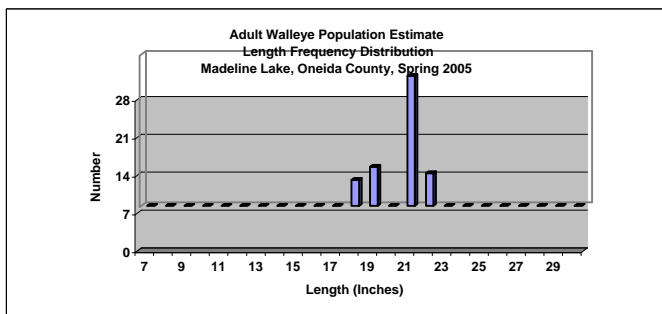


Figure 1. Length frequency distribution of 44 adult* walleye estimated to be in Madeline Lake, Oneida County, based on a spring 2005 survey.

* Note: Adult walleye are defined as all sexable walleye and walleye of unknown sex ≥ 15 inches long.

Walleye

We conducted a mark-recapture survey of Madeline Lake's adult* walleye population from April 14-18, 2005. We captured and marked (fin clipped) 10 adult walleye in four days of fyke netting. A crew sampled Madeline Lake with an electro-fishing boat on April 18th and captured five adult walleye. None of those walleye bore the fin clip given during fyke netting.

Based on those results, we were able to make only a crude estimate of Madeline Lake's adult walleye abundance (44 adult walleye, 0.3/acre). All adult walleye captured during this phase of the survey were 15 inches long or larger. The largest walleye we captured was a 22.1-inch female.

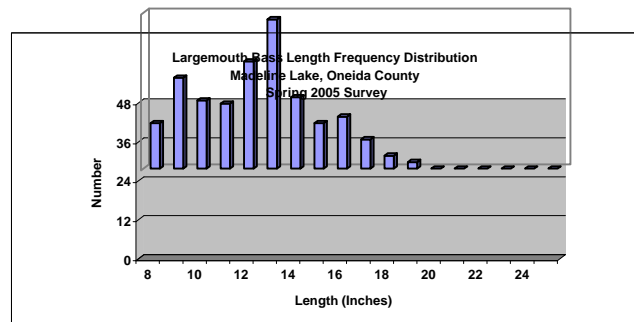


Figure 2. Length frequency distribution of 229 largemouth bass ≥ 8 " captured during a fisheries survey of Madeline Lake, Oneida County, in spring 2005.

Northern Pike

We captured 18 adult* northern pike in fyke nets fished in Madeline Lake from April 14-17, 2005. Approximately 94% (17 of 18) of adult northern pike we captured were less than 26 inches long. The largest northern pike we captured was a 27.2-inch female.

* Note: Adult northern pike are defined as all sexable northern pike and northern pike of unknown sex ≥ 12 inches long.

Largemouth Bass

We captured 229 largemouth bass, 8 inches or larger, during our fyke netting and electro-fishing sampling of Madeline Lake from April 14 through June 8, 2005.

Approximately 29% (67 of 229) of those largemouth bass were 14 inches long or larger. The biggest largemouth bass we captured was 19.2 inches long.

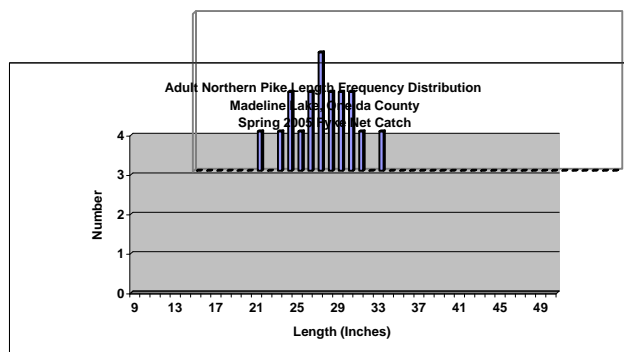


Figure 3. Length frequency distribution of 18 adult* northern pike captured in fyke nets during a fisheries survey of Madeline Lake, Oneida County, in spring 2005.

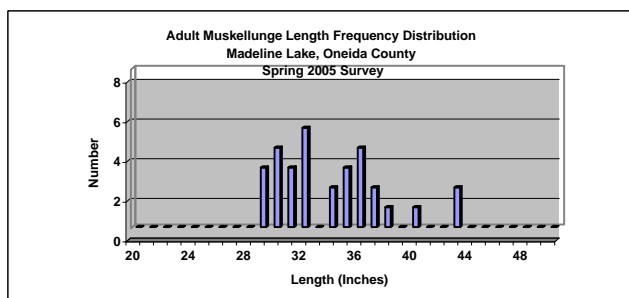


Figure 4. Length frequency distribution of 30 adult* muskellunge captured during a fisheries survey of Madeline Lake, Oneida County, in spring 2005.

Muskellunge

We captured 30 adult* muskellunge during our fyke netting and electro-fishing sampling of Madeline Lake. Fifty percent of the adult muskellunge (15 of 30) we captured were 34 inches long or larger. One in 10 muskellunge (3 of 30) were 40 inches long or larger. The largest muskellunge we captured was a 43.6-inch female.

* Note: Adult muskellunge are defined as all sexable muskellunge and muskellunge of unknown sex ≥ 20 inches long.

Other Species

We captured eight species of fish in our fyke netting and electro-fishing sampling of Madeline Lake in addition to the game fish mentioned above. Yellow perch were abundant in our fyke net catches. Bluegill and pumpkinseed were common. We also caught black crappie, bowfin (dogfish), golden shiner, rock bass and yellow bullhead. Young-of-year walleye will be sampled in fall 2005. Additional sampling with fyke nets is planned for spring 2006 to capture muskellunge and complete a population estimate.

We are also conducting a creel (angler harvest) survey on Madeline Lake this year. Creel clerk John Logan will count and interview anglers and examine their catch throughout the 2005 open-water fishing season.

Table 1. General Fishing Regulations for Madeline Lake, Oneida County, 2005

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Walleye	May 7 - March 5	5	15 inches
Largemouth and Smallmouth Bass	May 7 - June 17 (C&R) June 18 - March 5 (Harvest)	None 5 in total	14 inches
Muskellunge	May 28 - Nov. 30	1	34 inches
Northern Pike	May 7 - March 5	5	None

A brief summary of selected fishing regulations for Madeline Lake is included above (Table 1). While the regulatory information provided was current at the time the surveys were conducted, it is not comprehensive and should not be used as a substitute for the current fishing regulation pamphlet. You may obtain a copy of current fishing regulations when you purchase your fishing license, or download a copy from our web site at:

<http://www.dnr.state.wi.us/org/water/fhp/fish/>

This report is interim only; data and findings should not be considered final. Results of creel surveys should be available by June 2006. If you are interested in a summary of the creel survey or want an update on this year's fyke netting and electro-fishing survey results, contact:

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